

N THE CLAIMS

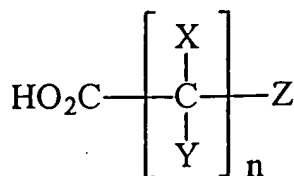
Please amend the claims as set forth below.

Please cancel claims 2-42 without prejudice or disclaimer. Applicants reserve the right to file one or more continuation or divisional applications directed to the canceled subject matter.

Please add new claims 43-55:

Claim 1. (original) A composition comprising:

(A) an effective amount of at least one compound of formula 1



Formula I

wherein each X is independently H, halogen, OH, SH, oxo, (C₁-C₈) alkyl group;

each Y is independently H, (C₁-C₈) alkyl group,

Z is H, OH, SH, COOH, or (C₁-C₈) alkyl group;

n is an integer between 1 and 10, inclusive;

and salts thereof; and

an effective amount of at least one compound of group II wherein group II compounds include a ketone having 3-10 carbon atoms, carbon dioxide, (C₂-C₁₀) alkene, (C₁-C₁₀) aldehyde, an alcohol having 1-8 carbon atoms, a halogenated compound containing 1-8 carbon atoms, a nitrile containing 2-4 carbon atoms, an ether containing 3-10 carbon atoms, (C₆-C₁₀) aryl group, a sulfide containing 1-8 carbon atoms and (C₃-C₁₀) heterocyclic group;

wherein any one or more of the (C₆-C₁₀) aryl group or (C₃-C₁₀) heterocyclic group may be substituted at any one or more positions with a substituent selected from the group consisting of H, oxo, halogen, OH, SH, COOH, COO(C₁-C₈) alkyl group, (C₁-C₈) alkyl sulfide and (C₁-C₈) alkyl group;

and salts thereof; wherein the composition is effective to attract arthropods; or

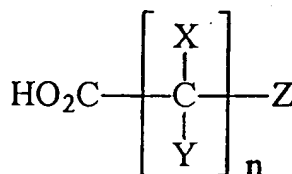
(B) a composition comprising an effective amount of tartaric acid or an acceptable salt thereof;

and an effective amount of at least one compound from group II wherein group II compounds include a ketone having 3-10 carbon atoms, carbon dioxide, (C₂-C₁₀) alkene, (C₁-C₁₀) aldehyde, an alcohol having 1-8 carbon atoms, a halogenated compound containing 1-8 carbon atoms, a nitrile containing 2-4 carbon atoms, an ether containing 3-10 carbon atoms, (C₆-C₁₀) aryl group, a sulfide containing 1-8 carbon atoms and (C₃-C₁₀) heterocyclic group;

wherein any one or more of the (C₆-C₁₀) aryl group or (C₃-C₁₀) heterocyclic group may be substituted at any one or more positions with a substituent selected from the group consisting of H, oxo, halogen, OH, SH, COOH, COO(C₁-C₈) alkyl group, C₁-C₈) alkyl sulfide and (C₁-C₈) alkyl group;

and salts thereof; wherein the composition is effective to attract arthropods; or

(C) a composition comprising an effective amount of at least one



compound of formula I

wherein each X is independently H, halogen, OH, SH, oxo, (C₁-C₈) alkyl, or (C₁-C₈) alkyl substituted with at least one substituent selected from the group consisting of H, OH, SH, and halogen, or Y is absent when X is oxo;

Z is H, OH, SH, COOH, (C₁-C₈) alkyl, or (C₁-C₈) alkyl substituted with at least one substituent selected from the group consisting of H, OH, SH, and halogen;

n is an integer between 1 and 10, inclusive;

and acceptable salt thereof;

and an effective amount of at least one compound from group II wherein group II compounds include a ketone having 3-10 carbon atoms, carbon dioxide, (C₂-C₁₀) alkene, (C₁-C₁₀) aldehyde, an alcohol having 1-8 carbon atoms, a halogenated compound containing 1-8 carbon atoms, a nitrile containing 2-4 carbon atoms, an ether containing 3-10 carbon atoms, (C₆-C₁₀) aryl group, a sulfide containing 1-8 carbon atoms and (C₃-C₁₀) heterocyclic group;

and salts thereof;

with the proviso that the compound of formula I does not consist solely of glycolic acid, oxalic acid, acetic acid, hydraacrylic acid, pyruvic acid, glyceric acid, 3-hydroxypyruvic acid, malonic acid, 3-hydroxybutyric acid, 2-methylactic acid, 2-hydroxybutyric acid, 2-oxobutyric acid, isobutyric acid, butyric acid, malic acid, 2-oxovaleric acid, isovaleric acid, 2-methylvaleric acid, hexanoic acid, mercaptoacetic acid, thiolactic acid, 3-mercaptopropionic acid, thiopropionic acid, 3-mercaptopropionic acid, 2-bromopropionic acid, 2-bromobutyric acid, 2-chloropropionic acid, 3-chloropropionic acid, lactic acid, or formic acid;

and salts thereof;

wherein the composition is effective to attract arthropods.

2-42 (canceled)

--43. (Newly Added) A method for attracting mosquitos comprising exposing an environment with a composition comprising mosquito attracting amounts of lactic acid and butanone.--

--44. (Newly Added) The method of claim 43 wherein said compositions further comprises dimethyl disulfide.--

--45. (Newly Added) A composition consisting of mosquito attracting amounts of lactic acid, acetone, and carbon dioxide.--

- 46. (Newly Added) A composition consisting of mosquito attracting amounts of lactic acid and dimethyl disulfide.--
- 47. (Newly Added) A composition consisting of mosquito attracting amounts of lactic acid, dimethyl disulfide, and carbon dioxide.--
- 48. (Newly Added) A composition consisting of mosquito attracting amounts of glycolic acid and acetone.--
- 49. (Newly Added) A composition consisting of mosquito attracting amounts of glycolic acid, carbon dioxide, and lactic acid.--
- 50. (Newly Added) A method for attracting mosquitos consisting essentially of exposing an environment with a composition consisting essentially of mosquito attracting amounts of lactic acid and butanone.--
- 51. (Newly Added) A method for attracting mosquitos comprising exposing an environment with a composition consisting essentially of mosquito attracting amounts of lactic acid, butanone and dimethyl disulfide.--
- 52. (Newly Added) A method for attracting mosquitos comprising exposing an environment with a composition consisting of mosquito attracting amounts of lactic acid, acetone, and carbon dioxide.--
- 53. (Newly Added) A method for attracting mosquitos comprising exposing an environment with a composition consisting of mosquito attracting amounts of lactic acid and dimethyl disulfide.--
- 54. (Newly Added) A method for attracting mosquitos consisting of exposing an environment with a composition consisting essentially of mosquito attracting amounts of

lactic acid, dimethyl disulfide, and carbon dioxide.--

--55. (Newly Added) A method for attracting mosquitos comprising exposing an environment with a composition consisting essentially of mosquito attracting amounts of glycolic acid, carbon dioxide, and lactic acid.--